



Weather

WEATHER SUPPORT EVALUATION

“HOLDOVER”

“The basic publication has changed; impact on supplemental information is under review by the OPR. Users should follow supplemental information that remains unaffected.”

AFI 15-114, 19 January 1994, is supplemented as follows:

3.2. Weather flights will use the AETC Weather Support Standard (WSS) described below to evaluate the effectiveness of weather support. Use AETC Form 318, **AETC Weather Support INDEX**, (or computer-generated equivalent) to calculate WSS. Weather flights may develop and use additional metrics at base level (not reportable to MAJCOM level) to further evaluate and improve weather support. The formula follows:

$$\text{OPVER (9) + AFR (9) + DLT (6) + PLT (3) + FAR (3)} \\ = \text{WSS Raw Score (30)}$$

Numbers in parentheses represent maximum score for that variable. The following describes each variable in detail:

●Operational Verification (OPVER) = (# Representative Forecasts / Total # Forecasts) X 9

OPVER criteria are determined by customers' mission requirements. One or multiple OPVER criteria may be evaluated. A time-window as large as + or - 30 minutes may be used for verification purposes.

●Amendment Free Rate (AFR) = (# TAFs Requiring No AMD / # TAFs issued) X 9

Total actual forecasts (TAF) whose only amendments are more than 30 minutes before-the-fact (BTF) or are representative but not required are considered TAFs requiring no amendment. But, regardless of the number of amendments issued more than 30 minutes BTF, a single amendment less than 30 minutes BTF makes it an

amended TAF. # TAFs issued represents normal filetime TAFs--not amendments.

●Desired Leadtime (DLT) = (Total Actual Leadtimes With > 1/2 Desired Leadtime/Total Desired Leadtimes) X 6

Add the total actual leadtimes of all required warnings issued with at least one-half desired leadtime. This will be the numerator. When adding the actual leadtimes in the numerator, note that leadtimes less than one-half desired leadtime are set to zero, and leadtimes greater than desired leadtime are set to the desired leadtime. Example: Five wind warnings issued with 90, 55, 45, 23, and 22 minutes leadtime, DLT is 45 minutes, and one tornado warning issued with 4 minutes leadtime, DLT is 5 minutes. The numerator is then 162 minutes (45+45+45+23+0+4). Next, add the desired leadtime for each required warning. This will be the denominator. Example: same six warnings as above. 45+45+45+45+45+5=230 minutes. Multiply the resulting fraction by six points. This example = 162/230 x 6 points = 4.23 points.

Positive Leadtime (PLT) = (# Required Warnings Issued With > 15 Minutes Leadtime/# Required Warnings) X 3

For tornado warnings, any positive leadtime counts.

●False Alarm Rate (FAR) = # False Alarms / # Warnings Issued

Supersedes AETCR 105-1, 31 January 1992
and AFR 105-14/AETC Sup 1, 23 November 1992
OPR: HQ AETC/XOSW (Capt Patteson)



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< 20% = 3 Points 40 - 60% = 1 Point
20 - 39.9% = 2 Points > 60% = 0 Points

Near misses for wind and hail are not counted as false alarms. A near miss for a wind warning is a maximum gust within 5 knots of the warning criterion speed, and for a hail warning, it is any hail. Do not include tornado warnings.

● **WSS = WSS Raw Score / 30**

4.1. HQ AETC/XOSW will forward quarterly forecasting proficiency exercises to weather flight personnel who, in turn, will use to enhance wartime forecasting skills.

Weather flight personnel will determine administration and scoring procedures. Weather flight personnel are encouraged to develop and conduct additional forecasting exercises using data from theaters where they have mobility taskings.

5.2. Weather flight personnel will fax or E-Mail WSS data to HQ AETC/XOSW by the 5th of each month.

8. (Added) AETC Form Prescribed. AETC Form 318.

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